

## *Very Tentative Lecture Schedule*

CS 329E Elements of Biological Data Models  
Spring 2007

Date	Lecture	Title		
January 19	1.	Introduction		
22	2.	Everything you need to know about relational databases (e.g. Oracle, or mySQL)		
	<b>Section 1</b>	<b>Design and Implementation of Data Models</b>		
29	3.	Unified Modeling Language (UML)		
February 2	4.	Using the Rational Rose CASE Tool		
5	5.	From Logical to Physical Data Models		
9	6.	Implementation Details		
	<b>Section 2.</b>	<b>Biological Sequences, Models and Analysis</b>		
16	7.	Edit Distance		
19	8.	Global Sequence Alignment		
23	9.	Chaining		
	<b>Section 3</b>	<b>Application: Mini-Rosetta Analysis</b>		
March 2	10.	Working Session		
5	Midterm			
9	11.	JDBC		
Spring Break				
19	12.	Case Study: MIAME		
	<b>Section 4</b>	<b>The Role of Internet Technologies</b>		
26	13.	Introduction to XML		
30	14.	Making XML work for you		
April 2	15.	Ontologies [The Gene Ontology]		
6	16.	The Semantic Web		
9	17.			
13	18.			
16	19.			
20	20.			
23	21.			
27	22.			
30	23.			
May 4	24.			